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1 Domain partitioning for open reactive systems

Scott D. Stoller

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '02**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(319.49 KB)   Additional Information: full citation, abstract, references, citings

Testing or model-checking an open reactive system often requires generating a model of the environment. We describe a static analysis for Java that computes a partition of a system's inputs: inputs in the same equivalence class lead to identical behavior. The partition provides a basis for generation of code for a most general environment of the system, i.e., one that exercises all possible behaviors of the system. The partition also helps the generated environment avoid exercising the same beha ...

2 Making abstract interpretations complete

Roberto Giacobazzi, Francesco Ranzato, Francesca Scozzari

March 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(445.53 KB)   Additional Information: full citation, abstract, references, citings, index terms

Completeness is an ideal, although uncommon, feature of abstract interpretations, formalizing the intuition that, relatively to the properties encoded by the underlying abstract domains, there is no loss of information accumulated in abstract computations. Thus, complete abstract interpretations can be rightly understood as optimal. We deal with both pointwise completeness, involving generic semantic operations, and (least) fixpoint completeness. Completeness and fixpoint completeness are s ...

3 Live-structure dataflow analysis for Prolog

Anne Mulkers, William Winsborough, Maurice Bruynooghe

March 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 2

Publisher: ACM Press

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For the class of applicative programming languages, efficient methods for reclaiming the